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WHAT IS THE CLAIMED IS:

1. A reciprocating surgical tool for use in an oral cavity operation, comprising a handle, a neck extending from said handle at a first end, and a head case coupled to a second end of said neck; a motor mounted inside of said handle; a slider shaft mounted inside of said head case having have an angle of approximately 90° with respect to a longitudinal axis of said neck; a slider movable in a linear reciprocating direction along said slider shaft; a tool member mounted to said slider for performing said oral cavity operation; and a power linkage device coupled between said slider and said motor for converting rotation power of said motor into linear reciprocating movement of said slider, whereby a direction of the oral cavity operation performed by said tool member mounted to said slider forms an angle of approximately 90° with respect to the longitudinal axis of the neck.

2. A reciprocating surgical tool according to Claim 1, wherein said power linkage device comprises a linkage shaft inserted into said neck, such that both ends of said linkage shaft are supported by a bearing, one end of said linkage shaft being directly coupled to said motor while the other end of said linkage shaft has an expanded member at which an eccentric groove is formed, and a pin, a first bent end of the pin being inserted into said eccentric groove of said expanded member and a second bent end of the pin being inserted into an eccentric groove of said slider, respectively.

3. A reciprocating surgical tool according to Claim 1, wherein said power linkage device comprises a gear element connected to a rotation shaft of said motor so as to convert the direction of rotation movement of said motor into a right angle; an eccentric wheel shaft coupled to an end of said gear element; and an L-shaped link located within said head case,

such that an arrest point of said L-shaped link is fixed to said head case by a first hinge, an upper end of said L-shaped link being coupled to said slider by a second hinge, and a lower end of said L-shape link being connected to an eccentric wheel by a rod.

4. A reciprocating surgical tool according to Claim 1, wherein said power linkage device comprises an eccentric wheel coupled to an end of said motor; and a second slider for linear reciprocating movement along a slider shaft being position within said handle for coupling to said eccentric wheel; and wherein said slider and second slider are connected by a lever having at a center thereof a rotation shaft.

5. A reciprocating saw for use in an oral cavity bone cutting operation, comprising:

a handle;

a motor;

a linkage for converting rotating power of said motor into linear reciprocating movement;

a slider shaft mounted at and end of said linkage having an angle of approximately 90° with respect to the linkage; and

a slider, for attaching one of a saw and a file, which moves reciprocatingly along said slider shaft, whereby a direction of a bone cutting operation performed by the saw or file attached to said slider forms an angle of approximately 90° with respect to a longitudinal axis of said handle.

6. A reciprocating saw according to Claim 5, further comprising a switch for turning on/off the motor.

7. A reciprocating saw according to Claim 5, wherein said linkage includes:

a linkage shaft connected between the motor and the slider for transmitting the rotating power from the motor to the slider;

the slider having at least one eccentric groove; and

a pin having a pair of bent ends, such that one bent end is inserted into the eccentric groove of the slider while the other end is inserted into an eccentric groove of the linkage shaft, whereby the rotating power of the motor is converted into linear reciprocating movement of slider.

8. A reciprocating saw according to Claim 7, further comprising at least one bearing to support the linkage shaft.

9. A reciprocating saw according to Claim 7, wherein the linkage has a curved shape for adjusting a working direction and bone cutting direction.

10. A reciprocating saw according to Claim 5, wherein the linkage includes:

a gear element consisting of two gears perpendicularly engaged with each other, one of which is connected to a rotation shaft of said motor and the other of which connected to an eccentric wheel shaft, in order to convert a direction of rotation movement of said motor into a right angle;

the eccentric wheel shaft being connected to a rod so that the rotating power of the gear is transferred to the rod;

the rod being connected to a lower portion of an L-shaped link so that the reciprocating movement of the rod is transmitted to the lower portion of the L-shape link; and

an upper portion of the L-shaped link being connected to the slider such that it pivotably moves up and down along the slider by transmitted movements of the rod through a hinge, whereby the rotating power of the motor is converted into a linear reciprocating movement of slider.

11. A reciprocating saw according to Claim 10, wherein the L-shape link is installed in a head case at an end of the linkage opposite said handle.

12. A reciprocating saw according to Claim 5, wherein said linkage includes:
a eccentric wheel coupled to an end of the motor; and
a second slider connected to the eccentric wheel and for reciprocating movement along the slider shaft; wherein the slider is connected to the second slider by a lever having at a center thereof a rotation shaft.

13. A reciprocating saw according to Claim 12, wherein the lever has a bent shape.